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 Lili Qiu, George Varghese, Subhash Suri  
 June 2001 **SIGMETRICS '01**: Proceedings of the 2001 ACM SIGMETRICS  
 Measurement and modeling of computer systems

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Routers must perform packet classification at high speeds to efficiently and diffserv. Classification can be based on an arbitrary number of field classification quickly on an arbitrary ...

Also published in:

June 2001 **SIGMETRICS Performance Evaluation Review** Volume 29 Issue 1

- 2 [A chipset level network backdoor: bypassing host-based firewall & IP](#)  
 Sherri Sparks, Shawn Embleton, Cliff C. Zou  
 March 2009 **ASI ACCS '09**: Proceedings of the 4th International Symposium  
 Communications Security

**Publisher:** ACM Request Permissions

Full text available: Pdf (1.35 MB)

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Chipsets refer to a set of specialized chips on a computer's motherboard paper we present a proof of concept chipset level rootkit/network backdoor interface card hardware based on ...

**Keywords:** hardware security, network backdoor, rootkit

- 3 [Virtualization technologies in transnational DG](#)  
 Mauricio Tsugawa, Andréa Matsunaga, José A. B. Fortes  
 May 2006 **dg.o '06**: Proceedings of the 2006 international conference on  
**Publisher:** ACM  
 Full text available: Pdf (140.00 KB)  
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Naïve deployments of digital government (DG) systems across organiza

face severe technical, sociopolitical and economical barriers. Some of them independently created IT infrastructures ...

#### 4 [Design of a high-performance ATM firewall](#)



Jun Xu, Mukesh Singhal

August 1999 **Transactions on Information and System Security (TISS)**

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (143.19 KB)

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**Bibliometrics:** Downloads (6 Weeks): 16, Downloads (12 Months): 132, Downloads

A router-based packet-filtering firewall is an effective way of protecting unauthorized access. However, it will not work efficiently in an ATM network termination of end-to-end ATM connections at a ...

**Keywords:** TCP/IP, asynchronous transfer mode, firewall, packet filtering

#### 5 [Automated tools to implement and test Internet systems in reconfigurable hardware](#)



John W. Lockwood, Chris Neely, Chris Zuver, Dave Lim

July 2003 **SIGCOMM Computer Communication Review**, Volume 33 Issue 1

**Publisher:** ACM

Full text available: [Pdf](#) (1.01 MB)

[Additional Information: full citation, abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 44, Downloads

Tools have been developed to automatically integrate and test network hardware. These tools dynamically generate circuits for Field Programmable hardware-accelerated modules has been developed ...

**Keywords:** Field Programmable Gate Array (FPGA), Internet, firewall, prevention, networks, reconfigurable hardware, tools

#### 6 [Designing a Safe Network Using Firewalls](#)

Paul Wouters

August 1997 **Linux Journal**, Volume 1997 Issue 40es

**Publisher:** Specialized Systems Consultants, Inc.

Full text available: [Html](#) (26.47 KB)

[Additional Information: full citation, abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 76, Downloads

It is by no means necessary to purchase specialized firewall hardware running on a \$400 386 PC-- provides as much protection as most commercial flexibility and ease

#### 7 [Simulating Highly Dependable Applications in a Distributed Computing Environment](#)

Yinong Chen, Zhongshi He

March 2003 **ANSS '03: Proceedings of the 36th annual symposium on Simulation**

**Publisher:** IEEE Computer Society

Full text available: [Pdf](#) (151.17 KB)

[Additional Information: full citation, abstract](#)

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The aims of the research are to investigate techniques that support the dependable applications in a distributed system environment. Techniques task allocation, load balancing, fault-tolerant computing ...

**Keywords:** Distributed system, task allocation, loadbalancing, firewall,

## 8 Shangri-La: achieving high performance from compiled network application programming



Michael K. Chen, Xiao Feng Li, Ruqi Lian, Jason H. Lin, Lixia Liu, Tao Liu, F. June 2005 **PLDI '05: Proceedings of the 2005 ACM SIGPLAN conference on implementation**

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (480.93 KB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 93, Downloads

Programming network processors is challenging. To sustain high line rate extremely tight memory access and instruction budgets. Achieving desired required hand-coded assembly. Researchers have recently ...

**Keywords:** chip multiprocessors, dataflow programming, network processor partitioning, throughput-oriented computing

Also published in:

June 2005 **SIGPLAN Notices** Volume 40 Issue 6

## 9 Scalable packet classification

Florin Baboescu, George Varghese

February 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13

**Publisher:** IEEE Press

Full text available: [Pdf](#) (501.73 KB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 82, Downloads

Packet classification is important for applications such as firewalls, intrusion services. Existing algorithms for packet classification reported in the literature space as filter databases ...

## 10 Scalable packet classification



Florin Baboescu, George Varghese

August 2001 **SIGCOMM '01: Proceedings of the 2001 conference on Applications and protocols for computer communications**

**Publisher:** ACM [Request Permissions](#)



Full text available: [Pdf](#) (242.61 KB)

Additional Information: [full citation](#), [abstract](#)



**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 50, Downloads

Packet classification is important for applications such as firewalls, intrusion services. Existing algorithms for packet classification reported in the literature space as filter databases ...



Also published in:

October 2001 **SIGCOMM Computer Communication Review** Volume 31 Issue**11** A student-managed networking laboratory Paul B. Albee, Laura A. Campbell, Martin A. Murray, Christopher M. Tongen  
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A major component of undergraduate Information Technology education environment. Attempting to provide an environment that is realistic, home university setting. The major problems ...

**Keywords:** lab management, networking, student involvement, teaching**12** Fast and scalable packet classification using perfect hash functions Viktor Pus, Jan KorenekFebruary 2009 **FPGA '09**: Proceeding of the ACM/SIGDA international symposium on FPGAs and related devices**Publisher:** ACMFull text available:  Pdf (567.51 KB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 203, Download


Packet classification is an important operation for applications such as routers and network systems. Many algorithms and hardware architectures for packet classification have been proposed. However, they cannot compete with the ...

**Keywords:** fpga, packet classification, sram**13** A multi-part lab exercise for analyzing the effect of peer-to-peer software Brandon Wagner, Stephen Renshaw, Kent BroadbentOctober 2007 **SIGITE '07**: Proceedings of the 8th ACM SIGITE conference**Publisher:** ACM  Request PermissionsFull text available:  Pdf (288.80 KB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 42, Download

Over the past few years, university campuses have dealt with peer-to-peer network. While it is easy to see the bandwidth consumption this software and software have not been adequately studied ...

**Keywords:** campus network, network traffic monitoring, networking lab**14** Using Web Services in a TMN environment


Lin Chen, Minglu Li

March 2005 **BSN '05**: Proceedings of the IEEE BSN05 international workshop on Business Systems and Networks**Publisher:** IEEE PressFull text available:  Pdf (138.61 KB)Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 20, Download


One great challenge that equipment vendors, service providers and network managers must manage and integrate the complicated telecommunication hardware, so that they can do so in a seamless manner. The integration of TMN and CORBA has ...

#### 15 [Is your resNet support boat sinking?: try outsourcing!](#)

 [Brien G. Muller, Mark A. Bauer](#)

November 2005 **SIGUCCS '05**: Proceedings of the 33rd annual ACM SIGUCCS

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (147.51 KB)


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Skidmore is a small liberal arts College with 1,800 residential students. Its computer and some have more than one, so support is becoming an ever-growing problem. Worms and spyware running rampant in ...

**Keywords:** outsource, resNet, students, support

#### 16 [Architecting a secure internet](#)

 [Saikat Guha, Paul Francis](#)

October 2005 **SOSP '05**: Proceedings of the twentieth ACM symposium on Operating Systems

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (180.41 KB)

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The Internet is not secure due to its design goals being at odds with the security goals. The Internet strives to allow any host to communicate with any other host, while security advocates limiting host connectivity to ...

#### 17 [Hybrid intelligent systems for network security](#)

 [J. Lane Thames, Randal Abler, Ashraf Saad](#)

March 2006 **ACM-SE 44**: Proceedings of the 44th annual Southeast region

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Full text available:  Pdf (89.08 KB)


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**Bibliometrics:** Downloads (6 Weeks): 21, Downloads (12 Months): 127, Download

Society has grown to rely on Internet services, and the number of Internet users and more users become connected to the network, the window of opportunity for damage becomes very great and lucrative. ...

**Keywords:** Bayesian learning, hybrid-intelligent systems, intrusion detection

#### 18 [A dynamic data mining technique for intrusion detection systems](#)

 [Bruce D. Caulkins, Joohan Lee, Morgan Wang](#)

March 2005 **ACM-SE 43**: Proceedings of the 43rd annual Southeast region

Volume 2


**Publisher:** ACM  [Request Permissions](#)


Full text available:  Pdf (540.76 KB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 33, Downloads (12 Months): 209, Downl

In today's interconnected world of computer networks, there exists a ne  
transactions through the use of firewalls, Intrusion Detection Systems (  
and other hardware and software solutions. ...

**Keywords:** anomaly detection, data mining, data modeling, decision tr  
signature detection


**19** Context-agile encryption for high speed communication networks


 Lyndon G. Pierce, Edward L. Witzke, Mark O. Bean, Gerry J. Trombley  
January 1999 **SIGCOMM Computer Communication Review** , Volume 29 Is  
**Publisher:** ACM

Full text available:  Pdf (1.43 MB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 15, Downloa

Different applications have different security requirements for data priv  
authentication. Encryption is one technique that addresses these requir  
designed for use in high-speed communications networks, ...

**20** Packet classification using tuple space search

 V. Srinivasan, S. Suri, G. Varghese  
August 1999 **SIGCOMM '99: Proceedings of the conference on Applications  
protocols for computer communication**

**Publisher:** ACM Full text available:  Pdf (1.46 MB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 31, Downloads (12 Months): 205, Downl

Routers must perform packet classification at high speeds to efficiently  
and QoS routing. Packet classification requires matching each packet ag  
and forwarding the packet according ...

Also published in:

October 1999 **SIGCOMM Computer Communication Review** Volume 29 Issue

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